

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1585793

Luminaire Tested: 14CZSP-SB-54VHE-L830

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1585793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-3)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-SB-54VHE-L830
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 5200 lumens, 80CRI, Ribbed Lens, SB housing
Light Source: -
Ballast/Driver: -

Summary

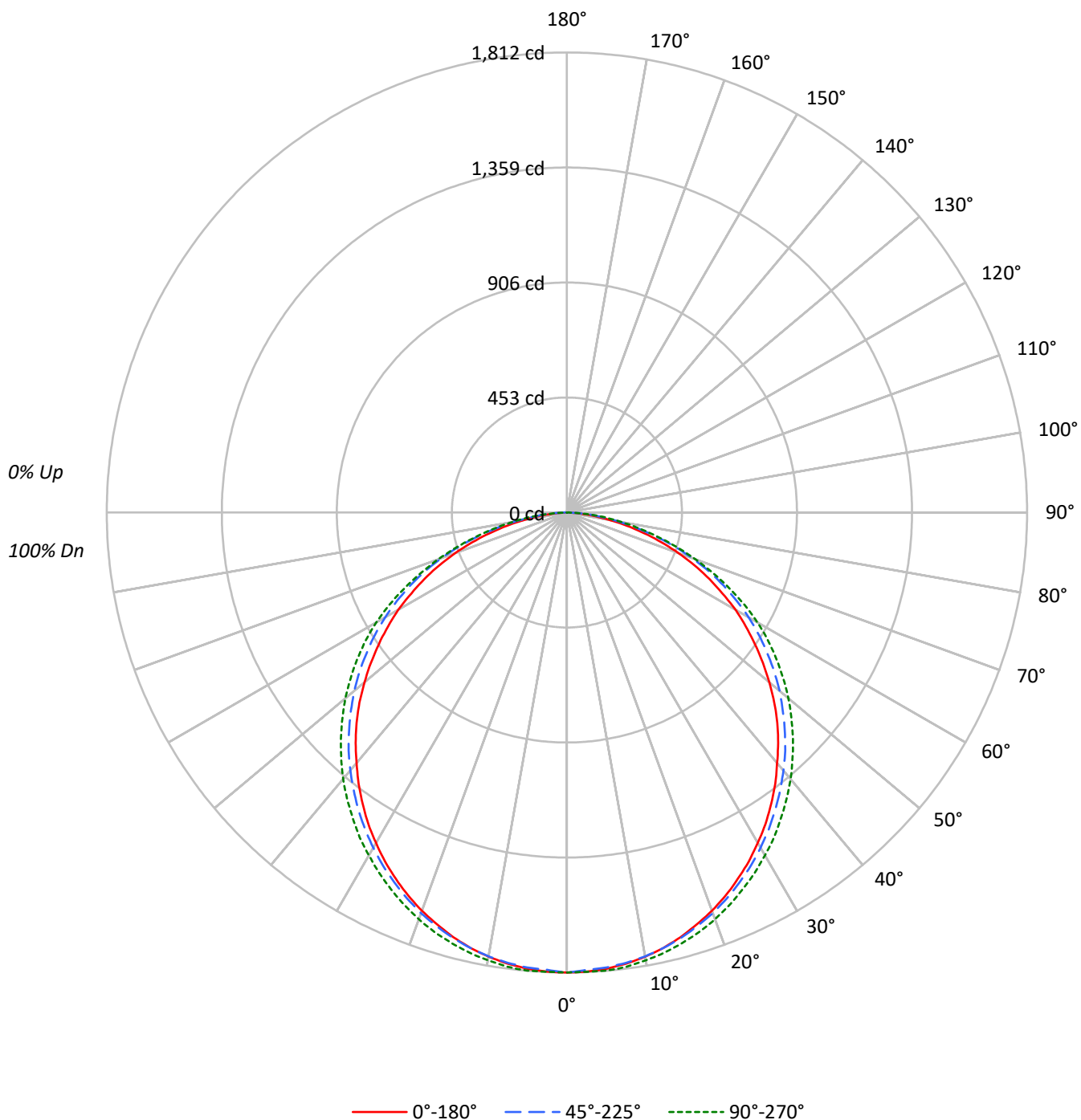
Lumens per Lamp: N/A
Luminaire Lumens: 5235.0 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		79	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6106	6106	6106
5°	6101	6086	6127
10°	6079	6074	6128
15°	6040	6053	6124
20°	5987	6022	6114
25°	5921	5977	6090
30°	5848	5933	6067
35°	5766	5884	6046
40°	5665	5834	6030
45°	5584	5782	5998
50°	5451	5728	5969
55°	5311	5653	5923
60°	5168	5570	5844
65°	4936	5423	5622
70°	4606	5178	5304
75°	4104	4693	4830
80°	3351	4067	4273
85°	2215	3236	3468

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5998 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	3.3
10°-20°	491.6	9.4
20°-30°	744.3	14.2
30°-40°	898.4	17.2
40°-50°	938.2	17.9
50°-60°	858.3	16.4
60°-70°	663.5	12.7
70°-80°	375.6	7.2
80°-90°	93.3	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1407.5	26.9
0°-40°	2306.0	44.0
0°-60°	4102.5	78.4
0°-90°	5235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5235.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1812	1812	1812	1812	1812	
5°	1804	1817	1799	1801	1811	171
15°	1731	1746	1735	1743	1756	488
25°	1593	1613	1608	1623	1638	734
35°	1402	1421	1430	1455	1470	877
45°	1172	1194	1213	1244	1259	902
55°	904	931	962	992	1008	808
65°	619	645	680	700	705	611
75°	315	342	360	370	371	334
85°	57	66	84	88	90	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1812.1	1812.1	1812.1	1812.1	1812.1
2.5°	1809.8	1822.6	1803.0	1806.8	1810.5
5°	1803.8	1816.6	1799.2	1800.7	1811.3
7.5°	1792.4	1806.8	1788.7	1791.7	1804.5
10°	1776.6	1790.9	1775.1	1778.1	1790.9
12.5°	1756.3	1770.6	1757.0	1761.5	1775.9
15°	1731.4	1746.5	1735.1	1743.4	1755.5
17.5°	1701.2	1720.1	1708.0	1720.8	1732.9
20°	1669.5	1688.4	1679.3	1690.6	1705.0
22.5°	1633.3	1652.2	1645.4	1657.5	1673.3
25°	1592.6	1613.0	1607.7	1622.8	1637.9
27.5°	1550.4	1570.0	1568.5	1585.1	1600.9
30°	1502.9	1524.0	1524.8	1544.4	1559.4
32.5°	1455.4	1474.2	1478.8	1500.6	1518.0
35°	1401.8	1421.4	1430.5	1454.6	1469.7
37.5°	1347.5	1369.4	1379.2	1405.6	1421.4
40°	1288.0	1312.9	1326.4	1354.3	1370.9
42.5°	1231.4	1254.0	1272.1	1300.0	1315.1
45°	1171.8	1194.5	1213.3	1244.2	1258.6
47.5°	1107.7	1132.6	1153.0	1183.2	1199.0
50°	1039.9	1067.0	1092.7	1122.1	1138.7
52.5°	972.8	999.2	1028.6	1057.2	1073.8
55°	904.1	931.3	962.2	992.4	1008.2
57.5°	834.8	861.9	895.8	923.0	939.6
60°	766.9	791.8	826.5	853.6	867.2
62.5°	690.0	718.6	754.1	781.2	788.8
65°	619.1	644.7	680.2	700.5	705.1
67.5°	543.7	569.3	604.8	616.1	622.9
70°	467.5	494.7	525.6	533.1	538.4
72.5°	390.6	418.5	442.6	450.2	454.7
75°	315.2	342.4	360.5	369.5	371.0
77.5°	242.1	266.9	283.5	294.1	294.1
80°	172.7	191.5	209.6	220.9	220.2
82.5°	110.1	124.4	143.3	151.6	156.8
85°	57.3	66.4	83.7	87.5	89.7
87.5°	18.1	23.4	30.2	24.9	24.1
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.97	19.62	18.33	19.93	20.24	18.51	20.16	18.87	20.47	20.79
	3H	19.74	21.23	20.12	21.56	21.92	20.37	21.86	20.74	22.19	22.55
	4H	20.36	21.77	20.76	22.12	22.49	21.04	22.45	21.44	22.79	23.17
	6H	20.77	22.07	21.18	22.44	22.83	21.52	22.83	21.94	23.19	23.58
	8H	20.87	22.12	21.29	22.50	22.90	21.68	22.93	22.10	23.32	23.72
	12H	20.92	22.11	21.35	22.49	22.92	21.78	22.97	22.21	23.36	23.78
4H	2H	18.71	20.11	19.10	20.46	20.84	19.13	20.53	19.52	20.88	21.26
	3H	20.70	21.88	21.11	22.28	22.68	21.20	22.39	21.61	22.78	23.18
	4H	21.45	22.52	21.88	22.93	23.36	22.01	23.08	22.44	23.49	23.92
	6H	21.97	22.90	22.42	23.34	23.80	22.62	23.56	23.07	24.00	24.45
	8H	22.10	22.98	22.56	23.42	23.88	22.82	23.70	23.28	24.14	24.61
	12H	22.18	22.96	22.66	23.44	23.91	22.96	23.75	23.44	24.22	24.69
8H	4H	21.80	22.68	22.26	23.12	23.58	22.30	23.17	22.76	23.61	24.08
	6H	22.43	23.16	22.93	23.65	24.12	23.03	23.76	23.52	24.24	24.72
	8H	22.63	23.28	23.14	23.79	24.27	23.30	23.95	23.81	24.46	24.94
	12H	22.75	23.33	23.26	23.82	24.38	23.51	24.08	24.01	24.57	25.13
12H	4H	21.84	22.63	22.32	23.10	23.57	22.32	23.11	22.80	23.58	24.05
	6H	22.50	23.15	23.01	23.66	24.14	23.07	23.72	23.58	24.23	24.71
	8H	22.75	23.32	23.25	23.81	24.37	23.40	23.97	23.90	24.46	25.02